Task-1

**1 Why is it important to include semantic HTML elements in your code?**

It help the search engines and other user devices to determine the importance and context of web pages

**2 How did you ensure the website was responsive?**

Responsive design uses a grid system which means the page is divided into columns (typically 12) that are sized at 100% of the width of the browser and when the screen ratio is changed web adjust itself like so that it wont look weird.

**3 What considerations did you take into account when designing your website layout?**

All website ensure using 5 golden rules and so did i and thats the basic for every web design

Focus on the message

Keep your layout neat

Choose user-friendly fonts

Avoid animation hell

Make it easy to navigate

**4 Why is form validation important in a newsletter sign-up?**

You need form validation as a security measure. Forms are an easy target for hackers because we all know they're connected to a database somehow. Letting people put whatever they want into your form opens you up to SQL injection attacks as a start and it can get way more advanced than that.

**5 How did you organize your CSS to make it easily maintainable and scalable?**

I always make a separate style sheet and link it with my html page and organise it with comments.

**6 Can you explain your process of wireframing or sketching the website before coding?**

I use OneNote a lot while doing my project cuz here i can drop my reference and the ideas 💡 that i find interesting then get to work it have time and date when u have started all that so its fun to use and super reliable

**7 What were some of the challenges you faced while working on this project and how did you overcome them?**

I didn't really had much problem but i started with boot strab but i find it less attractive so i just switch to normal css i even thought of tailwind css but i just did what felt like awsm to me .

**8 How would you enhance this project if you had more time or more advanced skills (like JavaScript or a backend language)?**

I would like to add an ai tool to my web who handle most of the work like if user want to have a coupon code he dont have to go search on Google he can just take help with our own ai chat bot thingi which will enhance the intractivness

**9 How would you connect your newsletter sign-up form to a back-end or third-party service to actually collect email addresses?**

The simplest and easiest way to collect email addresses is to create opt-in forms that allow users to enter their email and subscribe to your communications. When you create your form or signup page, make sure it's a quick process with apparent benefits to the user (promotions, exclusive content, etc.). Give your forms some visual pop to catch the eye and keep the number of fields to a minimum. It's nice to collect additional information from potential customers, but users are more likely to ignore a form that requires them to fill out several fields upfront.

Task-2

APIs are mechanisms that enable two software components to communicate with each other using a set of definitions and protocols used it as a key in js(java script)

**2 How did you handle user input to fetch the corresponding images?**

I added a search bar so that what ever they want to search they can get it by using the api

**3 How did you manage API errors or handle situations when the entered search query is invalid?**

I have never worked with api before so i had no idead what to do so i firstly watched couple tutorial once i was done with it i started writing my js

**4 How did you use JavaScript to manipulate the DOM and update the image information on the page?**

A screen shot of a computer program

Description automatically generated

**5 Why is it important to make your web app responsive?**

So that even the mobile user can experience your app and it take the screen size of any screen it opens in .

**6 How did you ensure that your app works properly across different browsers?**

By using it on various browser like Firefox ,edge ,chrome,brave .

**7 How did you secure your API key, especially when the code is shared or made public?**

I have not i dont have much idea about it.

**8 How can you extend the functionality of this image search app? What features would you add in a version 2.0?**

I would like to merge it with dall-e ai image generator so that it will give much more images that are how a user want it to be

**9 What are the limitations of the Unsplash API, and how did they affect your project?**

Like i said u cant have a picture of elephant over something or square donut they have limited stock of image if we introduce ai inage generator to it we can get a larger variety of images

**10 What was your strategy for designing the user interface of the app? How did you decide what information to display and how to display it?**

Most of the time i just learnt how it works and how u should apply it so i didn't really put much effort in design yet it came out good enough.